

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Algebra 1B Pd \_\_\_\_

**Using your PRIOR KNOWLEDGE ONLY, please answer the following questions.**

1. Write the definition of a function.

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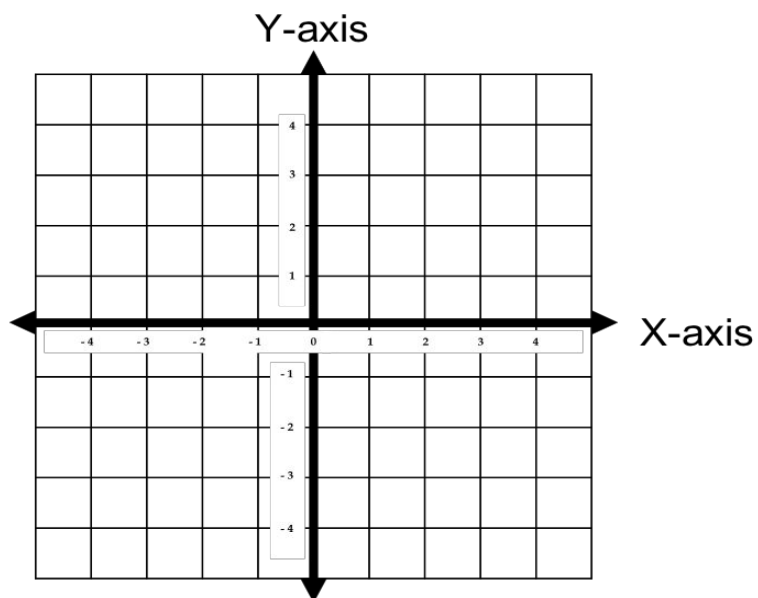
2. A function that can be expressed in the form  $y = kx$  is: \_\_\_\_\_

- A. direct variation      B. inverse variation      C. a linear function  
D. both a and c          E. both b and c

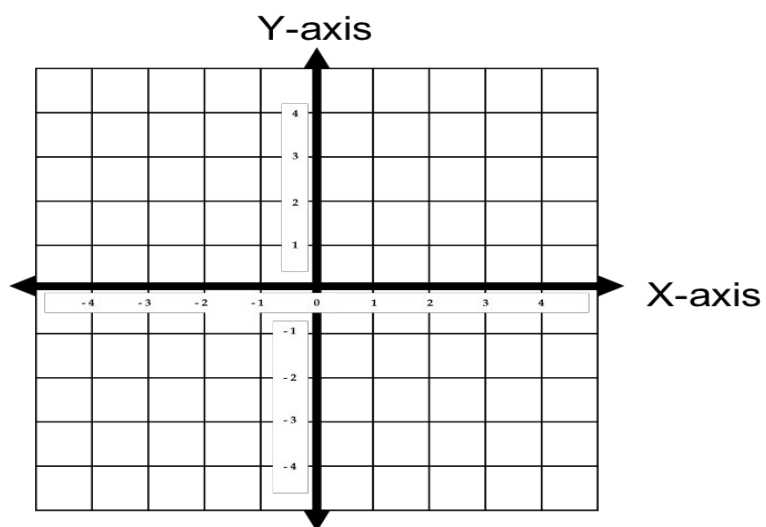
3. Write the slope formula.

4. Sketch a graph that represents the following situation: the speed of a bike as someone rides from school to home in DC.

5. Sketch the graph of a relation that is NOT a function.



6. Sketch the graph of a relation that IS a function.



CHALLENGE: Given  $f(x) = -x^2 - 8$ , find  $f(4)$ .

